Rittal offers an extensive range of power supply units in various designs.

The range includes 482.6 mm (19") compatible, Open Frame and PS/2 variants to supply DC voltage to controllers, systems and plant in many different areas.

### Power supplies

#### Features

Rittal offers an extensive range of power supply units in various designs.

The range includes 482.6 mm (19") compatible, Open Frame and PS/2 variants to supply DC voltage to controllers, systems and plant in many different areas.

### Open Frame (VME)

- **Power**: 250/600/400/1000 W
- **Design features**:
  - Open Frame design
  - Mounting on mounting base or subrack rear panel
  - Cooling via fans
  - Wide range input
  - Aluminium housing
  - 3 outputs
- **User benefits**:
  - Minimal space requirements with a high power output
  - Universal applications
  - Approvals: UL 1950, IEC 60 950 and CSA 22.2 No. 234

### 3 U, 6 U (VME)

- **Power**: 130/160 W, plug-in, integral VMEbus signalling
- **Design features**:
  - 482.6 mm (19") module to IEC 60 297-3
  - Mounting in the subrack with the aid of guide rails
  - Connection via connectors H15, IEC 60 603-2
  - 3 outputs
- **User benefits**:
  - 482.6 mm (19") compatible
  - Quick exchange
  - Approvals: IEC 60 950

### 3 U, 6 U (CPCI)

- **Power**: 175/200/250/350 W, plug-in
- **Design features**:
  - 482.6 mm (19") module to IEC 60 297-3
  - Mounting in the subrack with the aid of guide rails
  - Positronic connector 47-pole PICMG 2.11
  - 4 outputs
- **User benefits**:
  - 482.6 (19") compatible
  - Quick exchange
  - Approvals: IEC 60 950 A1 – A4, CSA 22.2, UL 1950, CE
  - PICMG specification

### PS/2 (AT/ATX)

- **Power**: 250/300/400 W
- **Power supplies for ATX and CPCI systems**
- **Design features**:
  - Open Frame design
  - Mounting on a mounting plate or subrack rear panel
  - Integral fan
  - Sheet steel enclosure
  - PFC active or passive
  - Optional redundant design
- **User benefits**:
  - Universal applications
  - Approvals: CSA

### UPS

- **Uninterruptible power supply unit for installation in 5 1/2" vertical drive mountings. Guarantees power supply in the event of a mains failure (6 minutes).**
- **Design features**:
  - Installation in 1 or 2 standard 5 1/2" drive holders
  - Integral batteries
- **User benefits**:
  - Minimal space requirements
  - Approvals: CE, IEC 60 950

### Redundant

- **Power**: 2 x 300 W power supplies for RAID or ATX.
- **Design features**:
  - Hot-swap version
  - PFC active
- **User benefits**:
  - Universal applications
  - Hot swap-compatible
### Power supplies

#### Ripac power supplies – Open Frame

#### Note:
- Power supply 1000 W: 48 V DC input on request.
- Detailed drawing, see page 1265/1266.

#### Output sizes

<table>
<thead>
<tr>
<th>Output voltage</th>
<th>5 V</th>
<th>+12 V</th>
<th>–12 V</th>
<th>5 V</th>
<th>+12 V</th>
<th>–12 V</th>
<th>5 V</th>
<th>+12 V</th>
<th>–12 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output current</td>
<td>35 A</td>
<td>8 A</td>
<td>60 A</td>
<td>8 A</td>
<td>85 A</td>
<td>8 A</td>
<td>8 A</td>
<td>110 A</td>
<td>16 A</td>
</tr>
<tr>
<td>Maximum power output</td>
<td>250 W</td>
<td>400 W</td>
<td>600 W</td>
<td>1000 W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Setting range of output voltage</td>
<td>5 – 5.5 V</td>
<td>9 – 15 V</td>
<td>2.5 – 5.7 V</td>
<td>5 – 16 V</td>
<td>± 10 %</td>
<td>4.5 – 5.5 V</td>
<td>9 – 15 V</td>
<td>5 – 15 V</td>
<td></td>
</tr>
<tr>
<td>Load compensation (load variation 0 – 100 %)</td>
<td>50 mV</td>
<td>± 3 %</td>
<td>&lt; 0.5 %</td>
<td>&lt; 0.5 %</td>
<td>± 0.5 %</td>
<td>25 mV</td>
<td>&lt; 25 mV</td>
<td>&lt; 25 mV</td>
<td>&lt; 60 mV</td>
</tr>
<tr>
<td>Line regulation (U_{min} – U_{max})</td>
<td>± 50 mV or ± 3 %</td>
<td>&lt; 25 mV</td>
<td>&lt; 25 mV</td>
<td>&lt; 25 mV</td>
<td>&lt; 25 mV</td>
<td>&lt; 60 mV</td>
<td>&lt; 60 mV</td>
<td>&lt; 0.5 %</td>
<td></td>
</tr>
<tr>
<td>Base load</td>
<td>10 %</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Infeed compensation (Sense)</td>
<td>0.5 V</td>
<td>0.5 V</td>
<td>–</td>
<td>0.5 V</td>
<td>–</td>
<td>0.5 V</td>
<td>–</td>
<td>max. 0.5 V</td>
<td>1 V</td>
</tr>
<tr>
<td>Residual ripple (max.)</td>
<td>1 %</td>
<td>1 %</td>
<td>2 %</td>
<td>2 %</td>
<td>1 %</td>
<td>2 %</td>
<td>1 %</td>
<td>2 %</td>
<td></td>
</tr>
<tr>
<td>Temperature coefficient</td>
<td>0.02 %/°C</td>
<td>0.03 %/°C</td>
<td>0.03 %/°C</td>
<td>0.03 %/°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overvoltage protection</td>
<td>Yes</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overload protection</td>
<td>Yes</td>
<td>Yes</td>
<td>Thermal current limiting</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overload protection, thermal</td>
<td>–</td>
<td>–</td>
<td>In case of fan failure or overtemperature</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overload protection, electronic</td>
<td>–</td>
<td>–</td>
<td>At 132 % U_{max} or short-circuit</td>
<td>Yes, each module separately</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Input variables

<table>
<thead>
<tr>
<th>Mains voltage U_{e}</th>
<th>85 – 264 V AC</th>
<th>90 – 264 V AC</th>
<th>150 – 264 V AC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mains frequency</td>
<td>45 – 65 Hz</td>
<td>47 – 63 Hz</td>
<td>–</td>
</tr>
<tr>
<td>Power factor</td>
<td>EN 61 000-3-2</td>
<td>&gt; 0.95</td>
<td>–</td>
</tr>
<tr>
<td>Startup current limitation</td>
<td>&lt; 40 A (cold start)</td>
<td>&lt; 50 A</td>
<td>–</td>
</tr>
<tr>
<td>Efficiency (typ.)</td>
<td>70 %</td>
<td>75 %</td>
<td>72 %</td>
</tr>
</tbody>
</table>

### General specifications
- All outputs short-circuit resistant to a maximum of 30 sec.
- General specifications, see page 1265/1266.
Power supplies

Ripac power supplies for VME, plug-in

Connector assignment, see page 1267.
Detailed drawing, see page 1267.
Characteristic curve diagram, see page 1267.

<table>
<thead>
<tr>
<th>Height (H)</th>
<th>[1]</th>
<th>3 U</th>
<th>[2]</th>
<th>6 U</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (B) mm</td>
<td>10 HP</td>
<td>12 HP</td>
<td>8 HP</td>
<td>12 HP</td>
</tr>
<tr>
<td>Depth (T) mm</td>
<td>170.0</td>
<td>170.0</td>
<td>170.0</td>
<td>170.0</td>
</tr>
<tr>
<td>Model No. RP power supply</td>
<td>3686.469</td>
<td>3686.470</td>
<td>3686.471</td>
<td>3685.306</td>
</tr>
<tr>
<td>Model No. RP front panel</td>
<td>3685.304</td>
<td>3685.305</td>
<td>3686.472</td>
<td>3685.307</td>
</tr>
</tbody>
</table>

Output sizes

| Output voltage | – | – | – | – |
| Output current 3 U, 10 HP/6 U, 8 HP | 14 A | 5 A | 2 A | 20 A | 5 A | 2 A |
| Output current 3 U, 12 HP/6 U, 12 HP | 20 A | 5 A | 2 A | 35 A | 6 A | 2 A |
| Maximum power output | 130 W (10 HP), 160 W (12 HP) | 160 W (8 HP), 270 W (12 HP) |
| Setting range of output voltage | ± 5 % | – | ± 5 % | – |
| Load compensation (load variation 0 – 100 %) | < 0.1 % | < 1 % | < 0.1 % | < 1 % |
| Line regulation (Ue min. – Ue max.) | < 0.2 % at 99 – 138/187 – 264 V AC | < 0.2 % at 230 V AC + 15 % – 19 % |
| Base load | – | – | – | – |
| Compensation time | < 1 ms at Ia 20 – 80 % |
| Infeed compensation (Sense) | ± 0.25 V | – | ± 0.25 V | – |
| Residual ripple (max.) | < 35 mV | < 20 mV | < 45 mVss | < 30 mVss | < 15 mVss |
| Interference voltage | 50 mV typ. (bandwidth 20 MHz) | < 80 mV typ. (bandwidth 20 MHz) |
| Temperature coefficient | 0.025 %/K |
| Overvoltage protection (automatically recovery) | 125 % + 5 % | 125 % + 10 % | 125 % ± 5 % | 120 % ± 10 % |
| Overload protection | typ. 110 % Ia, rated, UII characteristic curve acting on all outputs, outputs short circuit-resistant |
| Overtemperature protection | Cuts out if the internal temperature is too high, cuts in again with hysteresis |
| AC-FAIL, SYSRESET | TTL signals with 48 mA drive current, active low |
| ON delay | < 0.5 s | – |
| Ramp-up time | < 30 ms | 50 ms |

Input variables

| Mains voltage Ue | AC 187 – 264 V, 50/60 Hz with automatic changeover to AC 90 – 138 V (in the range 90 – 94 V AC only 85 % rated load) or 264 – 347 V DC |
| Mains frequency | 47 – 63 Hz |
| Efficiency (typ.) | 80 % |
| Startup current limitation | < 10 As typ. – in cold state | < 15 As typ. – in warm state | < 25 As typ. – in cold state | < 35 As typ. – in warm state |
| Fuse | 4 AT | 8 AT |

General specifications, see page 1267
## Power supplies

**Ripac power supplies for CPCI, plug-in**

**Connector assignment,**
see page 1268.

**Detailed drawing,**
see page 1268.

### Height (H)

|  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |  |  |
| [Image] |  |  |

|  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|
| L | T | H |

<table>
<thead>
<tr>
<th>Width (B)</th>
<th>8 HP</th>
<th>8 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth (T) mm</td>
<td>170.0</td>
<td>170.0</td>
</tr>
</tbody>
</table>

### Model No. RP

<table>
<thead>
<tr>
<th>AC power supply</th>
<th>3688.534</th>
<th>3688.694</th>
<th>3688.695</th>
<th>3688.528</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC power supply</td>
<td>3688.537</td>
<td>3688.655</td>
<td>3688.696</td>
<td>3688.530</td>
</tr>
</tbody>
</table>

### Output sizes

<table>
<thead>
<tr>
<th>Output</th>
<th>U1</th>
<th>U2</th>
<th>U3</th>
<th>U4</th>
<th>U1</th>
<th>U2</th>
<th>U3</th>
<th>U4</th>
<th>U1</th>
<th>U2</th>
<th>U3</th>
<th>U4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage (V)</td>
<td>5 V</td>
<td>3.3 V</td>
<td>12 V</td>
<td>–12 V</td>
<td>5 V</td>
<td>3.3 V</td>
<td>12 V</td>
<td>–12 V</td>
<td>5 V</td>
<td>3.3 V</td>
<td>12 V</td>
<td>–12 V</td>
</tr>
<tr>
<td>Current (A)</td>
<td>25 A</td>
<td>20 A</td>
<td>5 A</td>
<td>0.5 A</td>
<td>30 A</td>
<td>25 A</td>
<td>5 A</td>
<td>0.5 A</td>
<td>33 A</td>
<td>33 A</td>
<td>6 A</td>
<td>1.5 A</td>
</tr>
<tr>
<td>Maximum power output</td>
<td>175 W</td>
<td>200 W</td>
<td>250 W</td>
<td>350 W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base load (only U1)</td>
<td>5 %</td>
<td>5 %</td>
<td>5 %</td>
<td>10 %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load compensation (dyn.)</td>
<td>&lt; 3 % at 25 % load variation (1A/µs) 1 % after 300 µs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Line regulation</td>
<td>&lt; ± 1% (90 – 264 V AC)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Infeed compensation (Sense)</td>
<td>0.25 V</td>
<td>0.25 V</td>
<td>0.25 V</td>
<td>0.25 V</td>
<td>0.25 V</td>
<td>0.25 V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residual ripple (PARD)</td>
<td>50 mV or 1 % (bandwidth 20 MHz)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature coefficient</td>
<td>&lt; ± 0.02 %/K (0° – 50°C) after 20 min. start-up time</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overvoltage protection</td>
<td>125 % ± 10 %, reset by switching on again</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overload protection</td>
<td>Current limiting of all outputs, automatic return at normal load</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overtemperature protection</td>
<td>At overtemperature switches off all outputs, automatic return at normal temperature</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Input variables

<table>
<thead>
<tr>
<th>Mains voltage or DC input</th>
<th>90 – 264 V AC, 47 – 63 Hz, 3.2 A max.</th>
<th>90 – 264 V AC, 47 – 63 Hz, 7 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Factor</td>
<td>0.99 at V AC 115 V, full load</td>
<td></td>
</tr>
<tr>
<td>Starting current</td>
<td>15 A (115 V AC) cold start, 30 A (230 V AC) cold start</td>
<td></td>
</tr>
<tr>
<td>Fuse</td>
<td>3.15 A, 250 V AC or 10 A, DC</td>
<td></td>
</tr>
</tbody>
</table>

### Signals and control cables

<table>
<thead>
<tr>
<th>Power Fail (pin 42)</th>
<th>In the event of a mains failure &gt; 4 ms before output voltages exit control range. Power fail also triggered by failure or under-voltage of V1 or V2 (3 U) or any output (6 U)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEG (pin 38)</td>
<td>In case of overtemperature</td>
</tr>
<tr>
<td>Remote enable</td>
<td>Use logic “0” (TTL level)</td>
</tr>
<tr>
<td>Remote inhibit</td>
<td>Use logic “1” (TTL level)</td>
</tr>
<tr>
<td>LED displays, two-colour</td>
<td>Green: “Power ON” and output voltages present</td>
</tr>
<tr>
<td></td>
<td>Red: Error</td>
</tr>
</tbody>
</table>

### General specifications,
see page 1268
Power supplies

CPCI power supplies, uninterruptible power supply

**CPCI power supply**

**Open Frame 400 W**
- Wide-range input (90 – 253 V AC)
- Power factor to EN 61 000-3-2
- Radio interference suppressed to EN 55 022 curve B
- Immunity to interference to EN 61 000-4-2/4/5 Level 3 (formerly IEC 801-2/4/5)
- Quick installation due to “Fast On” connectors (approx. 30 sec.)
- Tested to IEC 60 950, UL 1950 and CSA 22.2 No. 234

**Technical specifications:**
- 400 W max.
- 3.3 V/25 A
- 5.0 V/25 A
- 12.0 V/8 A
- −12.0 V/7 A

---

**CPCI power supply**

**Plug-type, 180 W**
- Module, 3 U, 12 HP, plug-in
- Connector M24/8/DIN 41 612
- Automatic changeover 120/230 V AC
- All outputs permanently short-circuit resistant
- SELV outputs to EN 60 950
- Overvoltage protection on the primary and secondary circuits
- Overtemperature protection
- Control inputs: ENABLE, INHIBIT
- Signal output: DERATE
- EMC standards EN 50 081-1 and EN 50 082-2
- IEC 60 950/VDE 0805-SELV, protection category I, VDE 0100

**Technical specifications:**
- 180 W max.
- 5.1 V/20 A
- 3.3 V/14 A
- 12.0 V/2 A
- −12.0 V/1 A

Detailed data specification sheet available on request.

---

**Uninterruptible power supply**

- Ensures power continuity in the event of a mains failure
- Suitable for installation in a 5 1/2″ drive holder
- Floating contacts (DB-9) for UPS communication: Indicates the operating states: mains ok/mains failure/end of battery capacity/input for UPS deactivation signal
- Integral maintenance-free batteries
- CE certified, IEC 60 950 tested (LVD/EMC)

**Note:**
The UPS does not have an RS232 interface.

Upon request you can obtain an adaptor cable including CD-ROM with shutdown drivers for automatic termination of program routines and shutdown of the system for Windows, Netware and Linux.

Additional battery (5 1/4″) to extend to 500 VA available on request.

---

<table>
<thead>
<tr>
<th>Height mm</th>
<th>Width mm</th>
<th>Depth mm</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>126</td>
<td>63</td>
<td>279</td>
<td>3687.695</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Height U</th>
<th>Width HP</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>12</td>
<td>3686.682</td>
</tr>
</tbody>
</table>

**Accessories:**
- Female connector type M24/8, see page 547.
- Guide rails, see page 575.

---

<table>
<thead>
<tr>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3659.080</td>
</tr>
</tbody>
</table>

**Technical specifications:**
- Output 300 VA/180 W
- Input/output voltage: 220, 230, 240 V AC ± 15 %
- Input frequency: 50 Hz ± 5 %
- Output frequency: 50 Hz ± 1 %
- Switch-over time: < 4 ms
- Charging time: 6 – 8 hours (to 90 % capacity)
- Operating environment: Temperature 0°C – 40°C
- Humidity 0 – 90 %
- Status displays: LED for mains operation, back-up, low battery, over-temperature
- Acoustic alarms: Mains interruption (sounds every 5 sec.), Low battery (sounds every sec.)
- Test function: Test switch on the front panel to check the UPS function
- Approvals: CE, EN 60 950 tested (LVD/EMC)
- Hold-up time: 6 min.
AT/ATX power supplies, redundant power supplies

### ATX Power Supply

**for external switches**
- PS/2 model
- Built-in fan
- Short circuit-protected
- CSA-approved
- Connection cable for 5½” and 3½” disk drives, hard drive and motherboard
- PFC passive

**Technical specifications:**
- 300 W/230 V AC
- +3.3 V, 0.2 A/16.0 A
- +5.0 V, 30.0 A/19.5 A
- +12.0 V, 11.0 A
- −12.0 V, 0.8 A
- −5.0 V, 0.3 A
- +5.0 VSB, 2.0 A
- +3.3 V and +5 V, total max. 150 W
  - if 3.3 V/0.2 A, target +5 V/30 A
  - if 3.3 V/16 A, target +5 V/19.5 A

**Supply includes:**
- Connection cable.

**Accessories:**
- Front panel for ATX power supply, see page 545.

### Front Panel

**for ATX power supply**
Front panel with cut-outs for mounting the ATX power supply units in the subrack.

**Material:**
Aluminium, clear-chromated

**Supply includes:**
- Assembly parts,
- EMC gaskets (with EMC version).

<table>
<thead>
<tr>
<th>U</th>
<th>HP</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>42</td>
<td>3685.331</td>
</tr>
<tr>
<td>6</td>
<td>21</td>
<td>3685.332</td>
</tr>
</tbody>
</table>

### AT/ATX Power Supply

- PS/2 model
- Built-in fan
- Short circuit-protected
- CSA-approved
- On/off switch
- PFC active/passive
- W x H x D = 86 x 150 x 140 mm
- 47 – 63 Hz

**Supply includes:**
- Connection cable.

**Technical specifications:**

<table>
<thead>
<tr>
<th>Design</th>
<th>Power</th>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT</td>
<td>300 W</td>
<td>1</td>
<td>3688.118</td>
</tr>
<tr>
<td>AT for RAID</td>
<td>300 W</td>
<td>1</td>
<td>3688.119</td>
</tr>
<tr>
<td>ATX</td>
<td>300 W</td>
<td>1</td>
<td>3688.121</td>
</tr>
<tr>
<td>ATX</td>
<td>250 W</td>
<td>1</td>
<td>3688.127</td>
</tr>
<tr>
<td>ATX</td>
<td>300 W</td>
<td>1</td>
<td>3688.129</td>
</tr>
<tr>
<td>ATX</td>
<td>400 W</td>
<td>1</td>
<td>3688.128</td>
</tr>
<tr>
<td>ATX</td>
<td>400 W</td>
<td>1</td>
<td>3688.128</td>
</tr>
<tr>
<td>ATX</td>
<td>400 W</td>
<td>1</td>
<td>3688.128</td>
</tr>
</tbody>
</table>

Rittal Catalogue 32/Electronic Packaging

545
## Power supplies

### AT/ATX power supplies, redundant power supplies

#### ATX power supply 1 U

- 2 built-in fans
- Short circuit-protected
- On/off switch
- PFC active
- W x H x D = 85 x 40 x 230 mm

**Technical specifications:**
- 200 W max.
- 100 – 240 V AC
- 47 – 63 Hz
- 3.3 V/14.0 A
- 5.0 V/20.0 A
- –5.0 V/0.3 A
- 12.0 V/6.0 A
- –12.0 V/0.8 A
- +5 VSB/2 A
- +3.3 V plus 5 V total max. 120 W
- +3.3, 5 V, 12 V total max. 180 W

Supply includes:
- Connection cable.

#### Redundant power supply

- For ATX

- PS/2 model, 2 switches, 1 connector
- Built-in fan
- Hot-swap version
- PFC active
- Individual power pack module available (separately)
- W x H x D = 86 x 150 x 185 mm

**Technical specifications:**
- 2 x 300 W
- 90 – 264 V AC
- 47 – 63 Hz
- 3.3 V/20.0 A
- 5.0 V/25.0 A
- 5 VSB/1.5 A
- 12.0 V/16.0 A max. 20 A
- –12.0 V/0.5 A
- 5 V, 3.3 V plus 12 V total max. 285 W

Supply includes:
- Connection cable.

#### Redundant power supply

- For ATX

- PS/2 model, 2 switches, 2 connector
- Built-in fan
- Hot-swap version
- PFC active
- Individual power pack module available (separately)
- W x H x D = 86 x 160 x 220 mm

**Technical specifications:**
- 2 x 300 W
- 90 – 264 V AC
- 47 – 63 Hz
- 3.3 V/18.0 A
- 5.0 V/26.0 A
- 5.0 VSB/1.2 A
- 12.0 V/16.0 A max. 20 A
- –12.0 V/1.0 A
- +5 V, 3.3 V plus 12.0 V total max. 285 W

Supply includes:
- Connection cable.
Power supplies

AT/ATX power supplies, redundant power supplies

Mounting base for power supplies
- Attaches to the subrack side panel

Material:
2 mm aluminium, clear-chromated

Supply includes:
Assembly parts.

<table>
<thead>
<tr>
<th>Width (B) mm</th>
<th>Depth (T) mm</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>431.8</td>
<td>100</td>
<td>3684.323</td>
</tr>
<tr>
<td>431.8</td>
<td>130</td>
<td>3684.324</td>
</tr>
</tbody>
</table>

Female connector type M24/8
IEC 60 603-2
- Female connector for plug-in CPCI power supplies
- Quality level 2 to IEC 60 603-2 (DIN 41 612)
- Optional 20 A high current contacts for straight conductor connection either crimp or solder
- Volume resistance max. 1.5 mΩ
- Max. rated current: 40 A

Supply includes:
5 connection sockets (crimping or soldering method)

<table>
<thead>
<tr>
<th>Type of connection</th>
<th>Packs of</th>
<th>Model No. RP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soldering</td>
<td>1</td>
<td>3687.665</td>
</tr>
<tr>
<td>Crimping</td>
<td>1</td>
<td>3687.666</td>
</tr>
</tbody>
</table>

Note:
For mounting in the subrack, a Z rail is required, see page 570.

Female connector type H15
IEC 60 603-2 (DIN 41 612)
for plug-in power supplies.

Plastic guide rails
for routing the plug-in power supply, see page 575.

Keyable guide rails, plastic,
see page 576/577.

Note:
The CompactPCI specification prescribes green guide rails with ½ HP offset for power supply installation (PICMG 2.11).